

ANNUAL REPORT ON FY97 ONR SPONSORED RESEARCH

AASERT

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Long Term Goals

The training of students who are sufficiently insightful to know what must be done, sufficiently skilled to conceive and construct the necessary instruments, and sufficiently stubborn to collect and analyze the data.

Approach

Student participation in all phases of observational science.

Task Completed

Getting this AASERT funded.

Results

Matthew Alford is presently being supported by this grant. His thesis addresses the mechanisms which lead to turbulent mixing in the ocean.

Impact

Alford is linking the occurrence of overturns to very small scale internal waves ($\lambda_H \sim 100$ m, $\lambda_z = 15$ m) whose propagation is strongly influenced by larger scale flows.

Relationship to Other Projects

Alford is working on data from the Marine Boundary Layer Experiment. Support for MBL analysis is provided under a related ONR contract.